

# North Dakota 2012 Climate Summary



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# 2012 Climate Highlights



- Most locations across western and central North Dakota experienced:
  - A top ten warmest year on record
  - Drier than normal conditions
  - Snowfall deficits over 10"
- Several locations had their warmest March average temperature on record.
  - Average temperatures in March were 12 to 14 °F above normal .
- Drought conditions deteriorated throughout the summer and fall, peaking in late September and early October.
  - At the peak, extreme drought affected parts of eastern North Dakota.

# Bismarck

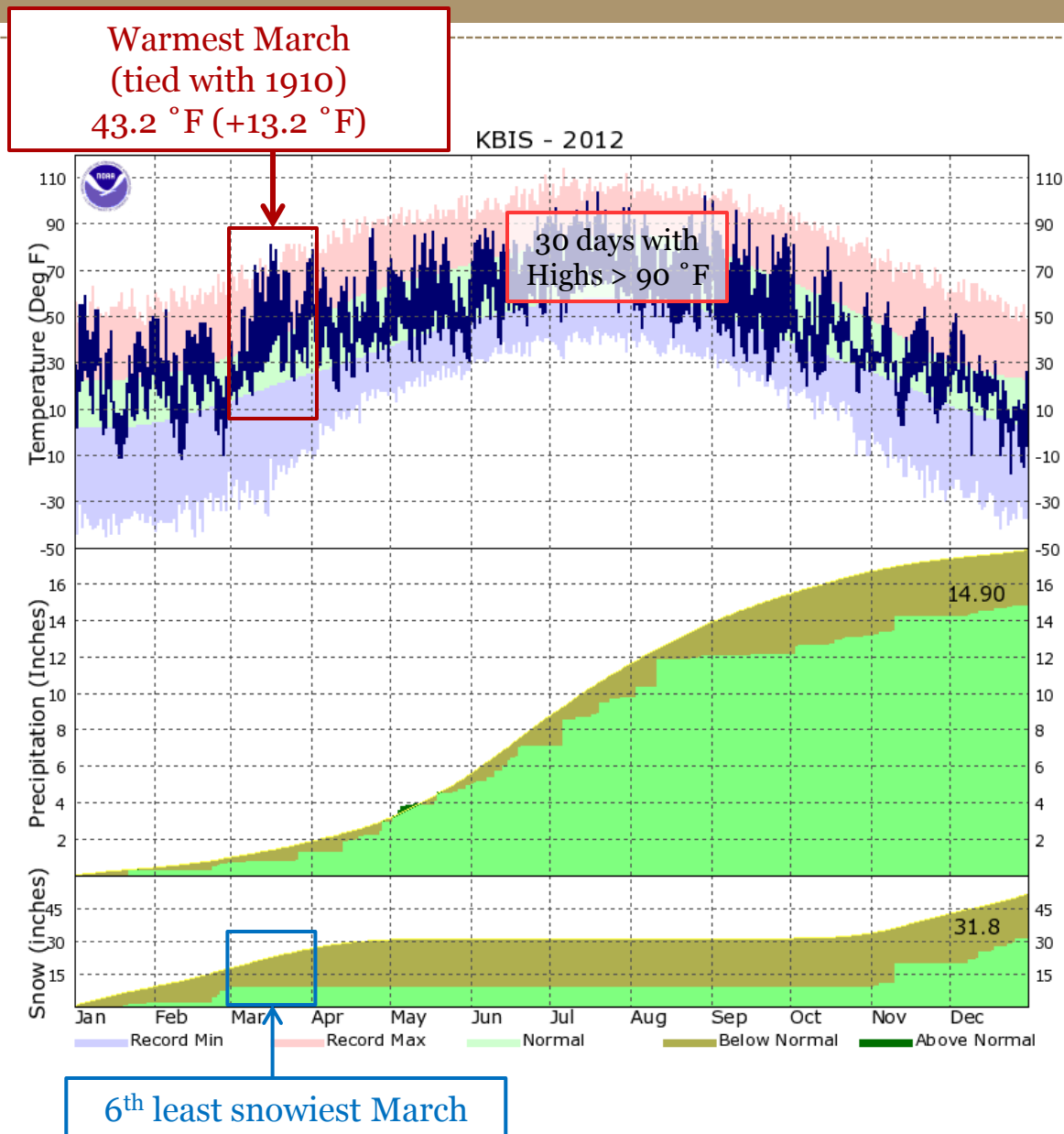
Max Temp: 104 °F (7/19)  
Min Temp: -18 °F (12/24)  
Range: 122 °F

Average Temperature: 45.5 °F  
Departure from Normal: +2.5 °F

Total Precipitation: 14.90"  
Departure from Normal: -2.95"

Total Snowfall: 31.8"  
Departure from Normal: -19.4"

**\*\*5<sup>th</sup> warmest year on record\*\***



# Williston

Max Temp: 100 °F (7/19)  
Min Temp: -20 °F (12/26)  
Range: 120 °F

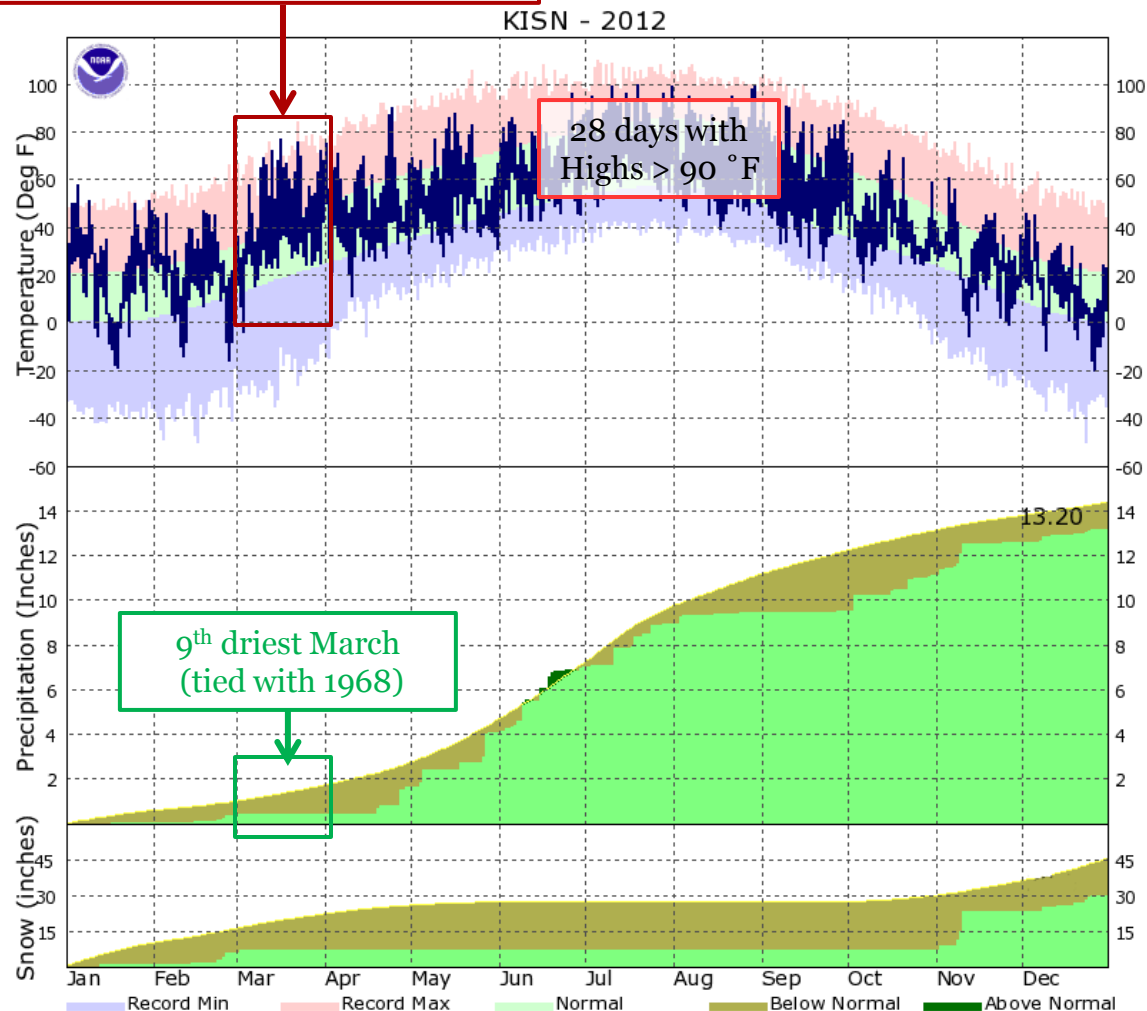
Average Temperature: 44.0 °F  
Departure from Normal: +2.4 °F

Total Precipitation: 13.20"  
Departure from Normal: -1.17"

Total Snowfall: 32.2"  
Departure from Normal: -13.1"

**\*\*Tied for 8<sup>th</sup> warmest year on record with 1990\*\***

2<sup>nd</sup> warmest March  
41.2 °F (+11.9 °F)



# Minot

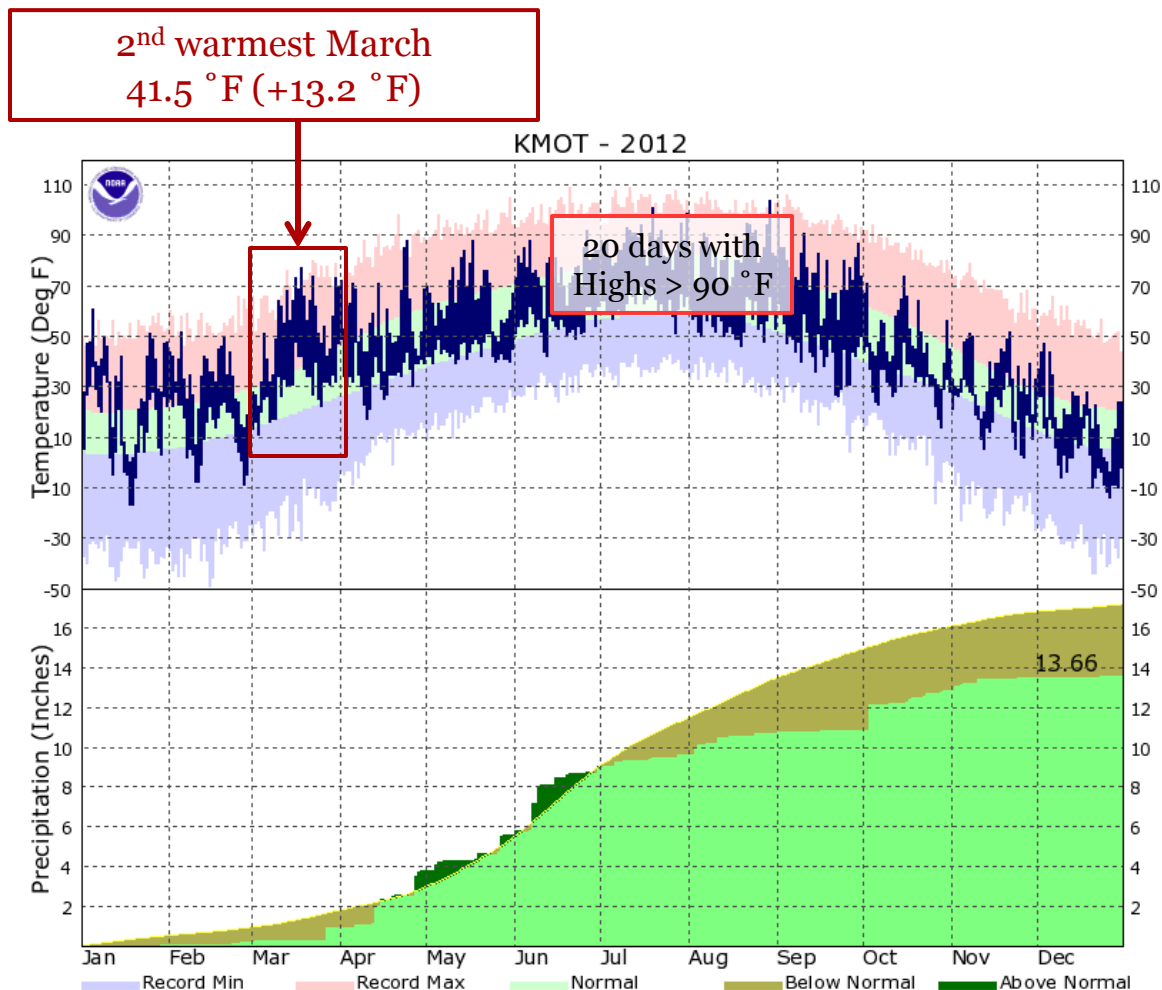
Max Temp: 104 °F (8/29)  
Min Temp: -17 °F (1/18 & 1/19)  
Range: 121 °F

Average Temperature: 44.7 °F  
Departure from Normal: +2.6 °F

Total Precipitation: 13.66"  
Departure from Normal: -3.53"

Total Snowfall: 30.7"  
Departure from Normal: -15.4"

**\*\*Tied for 4<sup>th</sup> warmest year  
on record with 1999\*\***



# Jamestown

Max Temp: 101 °F (7/19)

Min Temp: -16 °F (1/19)

Range: 117 °F

Average Temperature: 44.8 °F

Departure from Normal: +3.3 °F

Total Precipitation: 12.90"

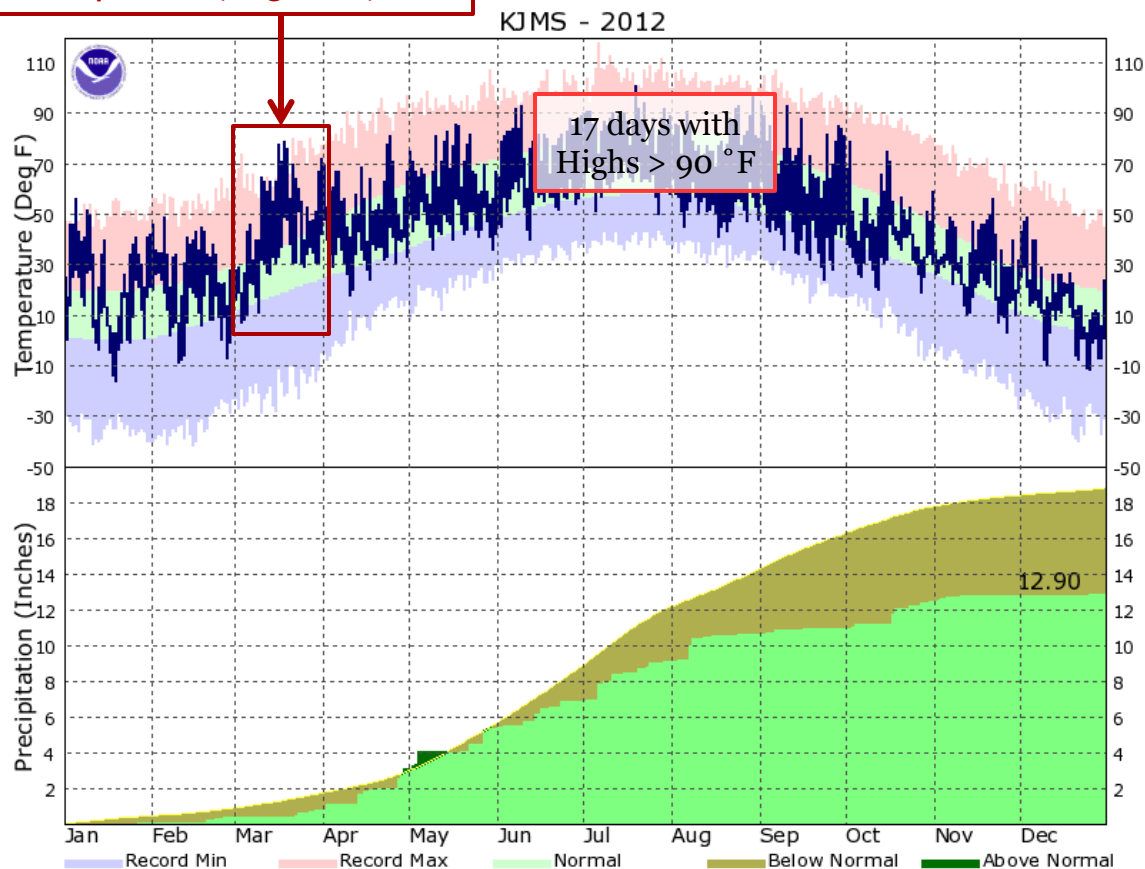
Departure from Normal: -5.87"

Total Snowfall: 27.3"

Departure from Normal: -17.2"

**\*\*2<sup>nd</sup> warmest and 8<sup>th</sup> driest  
year on record\*\***

Warmest March  
41.2 °F (+13.6 °F)



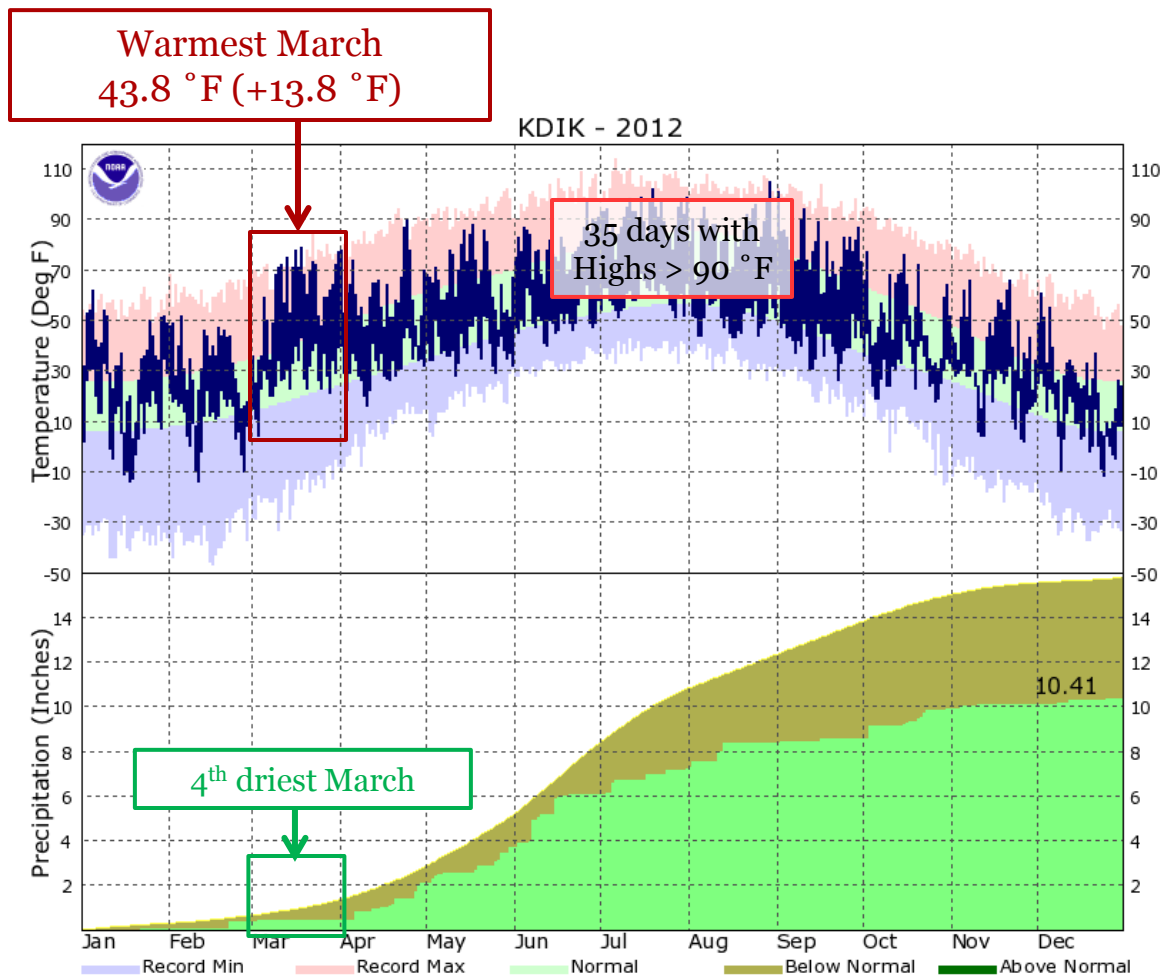
# Dickinson

Max Temp: 105 °F (8/29)  
Min Temp: -14 °F (1/18 & 2/11)  
Range: 119 °F

Average Temperature: 45.7 °F  
Departure from Normal: +3.1 °F

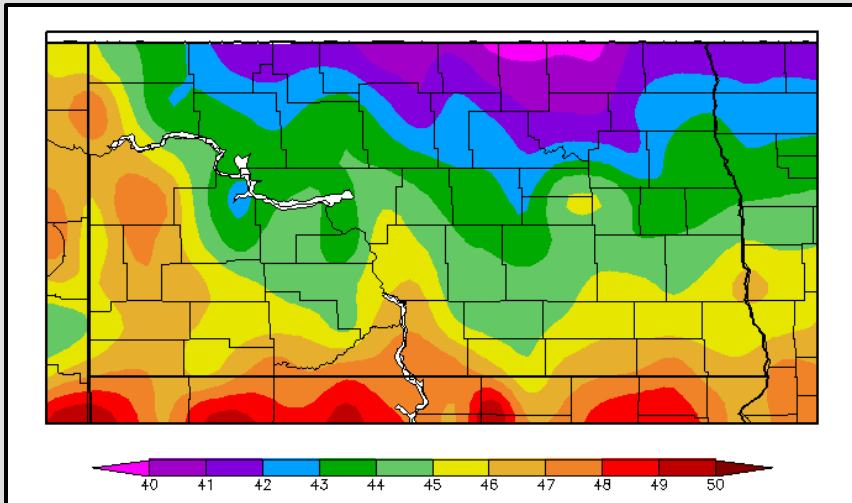
Total Precipitation: 10.41"  
Departure from Normal: -5.36"

**\*\*3<sup>rd</sup> warmest and tied for 8<sup>th</sup> driest year (2008) on record\*\***

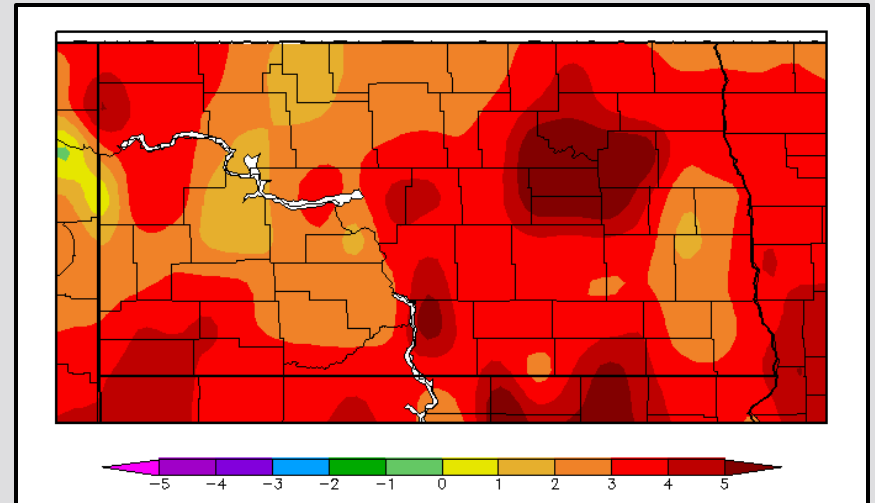


# 2012 Temperature Summary Maps

**Mean Temperature (°F)**



**Departure from Normal (°F)**

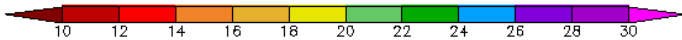
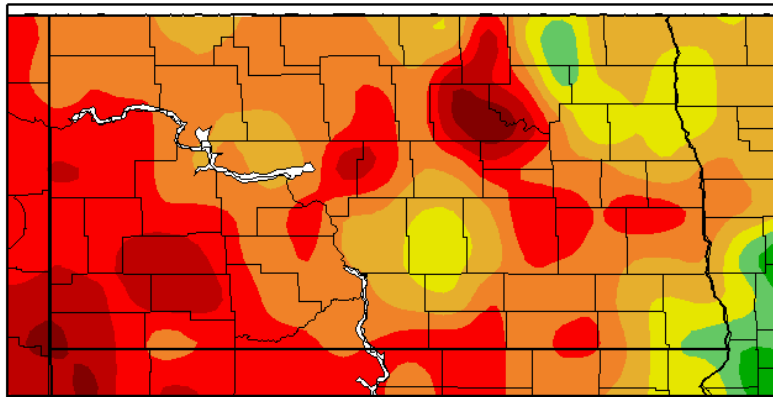




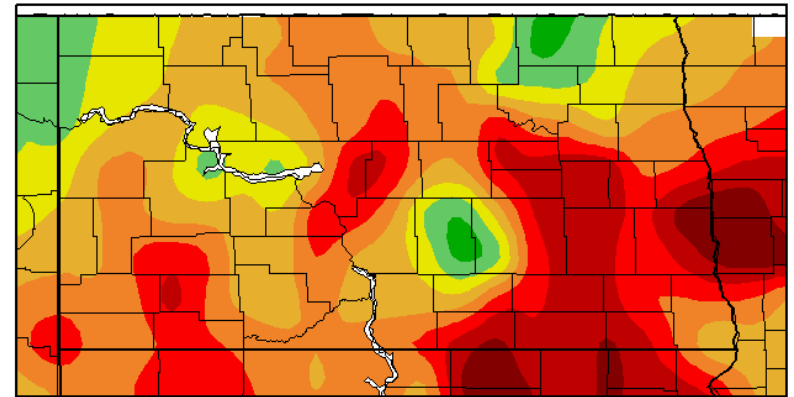
# 2012 Precipitation Summary Maps



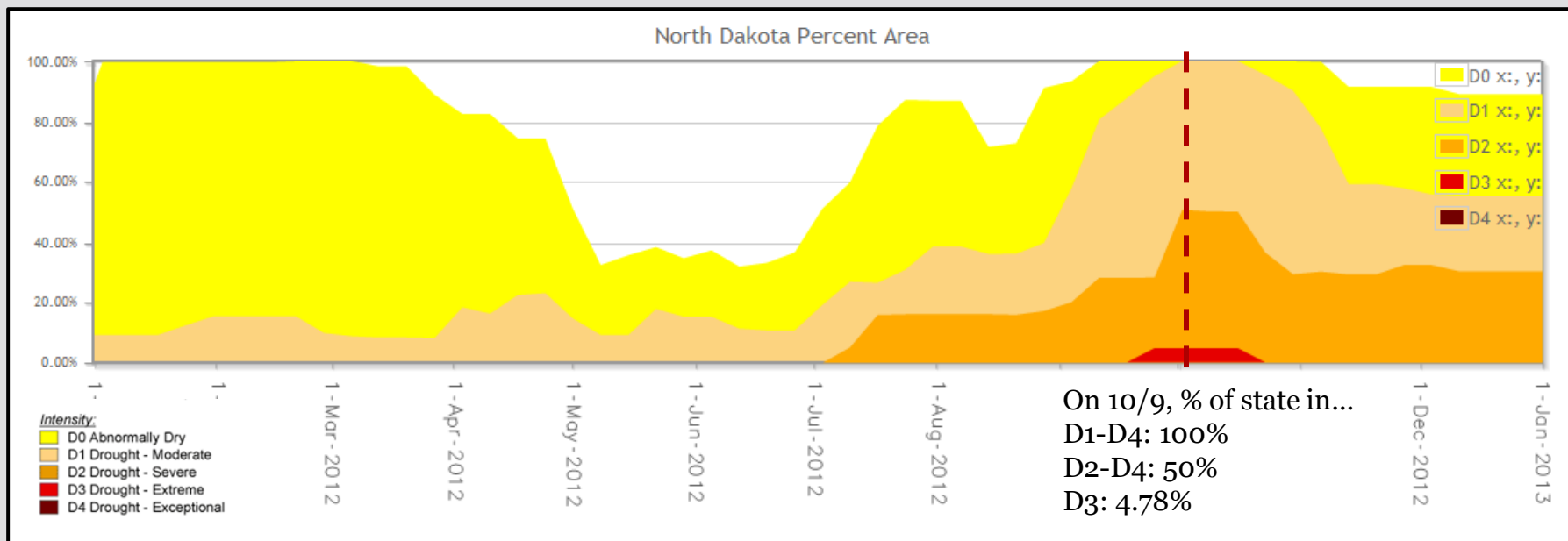
## Total Precipitation (Inches)



## Departure from Normal (Inches)



# Drought Summary



A mild and dry winter with snowfall deficits greater than 10" and the continuation of the mild and dry pattern through the summer and fall set the stage for the development of drought conditions across North Dakota. The drought peaked in late September and early October as extreme drought developed across parts of eastern North Dakota. The drought improved during November and December as the weather pattern transitioned into wetter than normal conditions.

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